

Title (en)

SAFETY MODULE FOR DOOR-LOCK DEVICE

Title (de)

SICHERHEITSMODUL FÜR TÜRVERRIEGELUNGSVORRICHTUNG

Title (fr)

MODULE DE SÉCURITÉ DE DISPOSITIF DE VERROUILLAGE DE PORTE

Publication

EP 3847302 A1 20210714 (EN)

Application

EP 19778695 A 20190827

Priority

- IT 201800008406 A 20180907
- IT 2019050191 W 20190827

Abstract (en)

[origin: WO2020049603A1] The present invention relates to a safety module (M) for a door-lock device, intended to block a door of a household appliance, comprising a first terminal (1), a second terminal (2), an actuator (3) arranged between said first terminal (1) and said second terminal (2), a closing switch (4), provided with contacts (41, 42), associated with said door of said household appliance and arranged on a closing circuit branch (81), and a blocking switch (6), provided with contacts (61, 62), functionally associated with said actuator (3) and arranged on a blocking circuit branch (82), wherein said closing circuit branch (81) and said blocking circuit branch (82) are parallel connected to each other, a multiple switch (9), in its turn comprising a first elastic lamina (9a), which is one of the contacts (41, 42) of said closing switch (4), a second elastic lamina (9b), which constitutes one of the contacts (61, 62) of said blocking switch (6), and a common electric support (9c), which said first (9a) and said second (9b) elastic lamina are coupled to, said multiple switch (9) being made of a single piece, and wherein said closing circuit branch (81) and said blocking circuit branch (82) are series connected to said actuator (3).

IPC 8 full level

D06F 37/42 (2006.01); **D06F 39/14** (2006.01)

CPC (source: EP)

D06F 34/20 (2020.02); **D06F 37/42** (2013.01); **D06F 2103/40** (2020.02); **D06F 2105/44** (2020.02); **E05B 2047/0051** (2013.01); **E05B 2047/0068** (2013.01); **E05B 2047/0069** (2013.01)

Citation (search report)

See references of WO 2020049603A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020049603 A1 20200312; EP 3847302 A1 20210714; EP 3847302 B1 20221026; EP 3847303 A1 20210714; EP 3847303 B1 20221026; WO 2020049602 A1 20200312

DOCDB simple family (application)

IT 2019050191 W 20190827; EP 19778695 A 20190827; EP 19787101 A 20190827; IT 2019050190 W 20190827